

- a) R_1 represents a group of the formula IIa, IIb, IIc,
 R_2 represents hydrogen,
 R_3 represents hydrogen,
 R_4 represents lower alkyl,
 R_5 represents hydrogen or lower alkyl,
 5 or R_3 and R_4 together form a group $-(CH_2)_u-$ or
 b) wherein R_1 and R_2 together represent a group of
 the formula III,
 R_3 represents hydrogen,
 10 R_4 represents lower alkyl,
 R_5 represents lower alkyl and
 R_6 is as defined in Claim 1.
3. A compound as claimed in Claim ¹⁵ 1 wherein R_6
 represents a group of formula IIIa as defined in Claim ¹⁵ 1.
- 15 4. A compound as claimed in Claim ¹⁵ 1 wherein
 R_1 represents a group of formula IIa, as defined in
 Claim ¹⁵ 1.
5. A compound as claimed in Claim ¹⁵ 4 wherein
 the double bond between the group R_6 and the nitrogen atom
 20 is in the trans configuration.
6. A compound as claimed in Claim 1 wherein R_{11}
 represents alkyl, alkenyl, alkynyl, cycloalkylalkyl, phenyl
 or phenalkyl.

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P
N
K
5 7. A compound of formula I wherein R_6 represents a group of formula IIIa wherein R_{11} represents alkyl preferably C_2-C_8 alkyl, more preferably C_2-C_6 alkyl most preferably C_2-C_4 alkyl for example n- or in particular t-butyl.

8. A compound of formula I wherein R_6 represents a group of formula IIIa wherein R_{11} represents α -hydroxy substituted alkyl; alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, phenyl, phenalkyl or thienyl.

10 3 9. N-Methyl-N-(1-naphthylmethyl)-non-2(trans)-en-4-ynyl-1-amine.

4 10. N-Methyl-N-(1-naphthylmethyl)-6,6-dimethyl-hept-2(trans)-en-4-ynyl-1-amine.

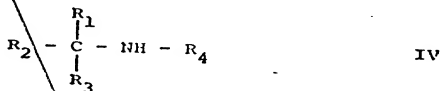
5 11. A compound as claimed in claim 1 in the 15 form of its hydrochloride.

6 12. A chemotherapeutical composition comprising an effective amount of a compound as claimed in claim 1 or a chemotherapeutically acceptable acid addition salt thereof in admixture with a chemotherapeutically 20 acceptable diluent or carrier.

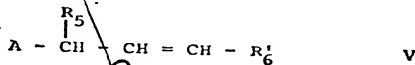
7 13. A method of treating diseases or infections caused by mycetes which comprises administering to a subject in need of treatment an effective amount of a compound as claimed in claim 1 or a chemotherapeutically 25 acceptable acid addition salt thereof.

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14. A process for the production of compounds of formula I as defined in Claim 1 which comprises
a) when R_6 represents a group of formula IIIa, as defined above, (compound Ia), reacting a compound of formula IV,

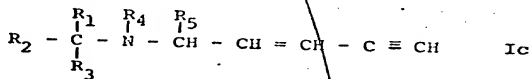


5 wherein R_1 to R_4 are as defined above, with a compound of formula V,

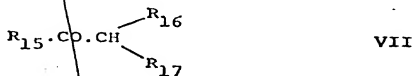


wherein A is a leaving group, R_5 is as defined above, and R'_6 stands for a group of formula IIIa, as defined above, or

10 b) when R_6 represents a group of formula IIIa, wherein R_{11} represents α -hydroxyalkyl (compounds Ib), reacting a metalated compound of formula Ic,

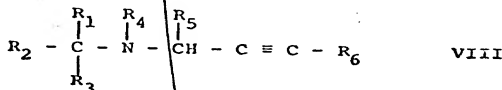


wherein R_1 to R_5 are as defined above, with a carbonyl compound of formula VII,



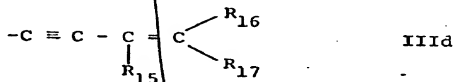
wherein R_{15} , R_{16} and R_{17} represent independently hydrogen or lower alkyl, or

- 5 c) when the double bond between R_6 and the nitrogen atom is in trans configuration (compounds Id) reducing a compound of formula VIII,

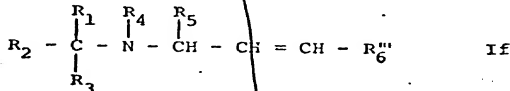


wherein R_1 to R_6 are as defined above, with diisobutyl-aluminiumhydride, or

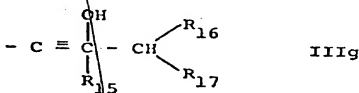
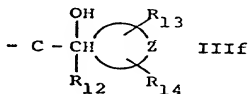
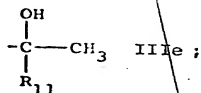
- 10 d) when R_6 represents a group of IIIb or IIIc as defined above or a group of formula IIId,



wherein R_{15} , R_{16} and R_{17} are as defined above (compounds Ie) splitting off water from a compound of formula

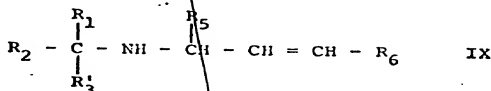


wherein R_1 to R_5 are as defined above,
and R_6''' represents a group of formula IIIe, IIIf,
or IIIg,



wherein R_{11} to R_{17} and Z are as defined above, or

- 5 e) when R_3 represents hydrogen or lower alkyl and R_4 represents C_{1-6} alkyl or C_{3-8} cycloalkyl- (C_{1-6}) -alkyl (compounds Ig), introducing the group R_4' into a compound of formula IX,



wherein R_1 , R_2 , R_5 and R_6 are as defined above,
 R_3' represents hydrogen or lower alkyl, and
 R_4' represents C_{1-6} alkyl or C_{3-8} cycloalkyl- (C_{1-6}) -alkyl.

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